

Comparisons of Job Characteristics

Focus Occupation: **Biological Scientists, All Other (19-1029)**

Associated Occupation: **Epidemiologists (19-1041)**

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 77

Focus Occupation: Biological Scientists, All Other (19-1029)

Associated Occupation: Epidemiologists (19-1041)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mathematics	9.2	18.7	14.7	<<	Extensive education and/or training may be required
English Language	11.2	17.6	18.2	0	Current knowledge level may be sufficient
Biology	3.7	16.5	24.4	>>	Current knowledge level is likely more than sufficient
Medicine and Dentistry	3.7	12.7	8.3	<<	Extensive education and/or training may be required
Sociology and Anthropology	4.1	11.6	3.5	<<	Extensive education and/or training may be required
Geography	3.9	8.8	3.0	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 90

Focus Occupation: Biological Scientists, All Other (19-1029)

Associated Occupation: Epidemiologists (19-1041)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Science	4.5	18.2	16.1	<	A higher skill level may be required
Reading Comprehension	10.7	16.7	18.5	>	Skill level is likely sufficient
Active Listening	11.0	14.6	14.5	0	Current skill level may be sufficient
Critical Thinking	10.8	14.6	15.7	0	Current skill level may be sufficient
Writing	9.2	14.3	16.2	>	Skill level is likely sufficient
Complex Problem Solving	9.1	13.9	13.1	0	Current skill level may be sufficient

Judgment and Decision Making	9.4	13.9	13.2	0	Current skill level may be sufficient
Monitoring	9.9	13.3	12.6	0	Current skill level may be sufficient
Active Learning	8.7	13.0	15.0	>	Skill level is likely sufficient
Coordination	9.1	11.8	10.3	<	A higher skill level may be required
Systems Analysis	6.5	11.8	11.0	0	Current skill level may be sufficient
Systems Evaluation	6.4	11.5	10.5	0	Current skill level may be sufficient
Mathematics	6.2	11.0	12.6	>	Skill level is likely sufficient
Operations Analysis	5.0	9.5	5.2	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 96

Focus Occupation: Biological Scientists, All Other (19-1029)

Associated Occupation: Epidemiologists (19-1041)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Oral Comprehension	12.5	16.4	17.9	0	Current ability level may be sufficient
Problem Sensitivity	11.1	16.2	14.4	<	Some improvement in abilities may be required
Written Comprehension	11.0	16.0	18.5	>	Current ability level is likely sufficient
Oral Expression	12.4	15.7	17.1	0	Current ability level may be sufficient
Inductive Reasoning	10.2	15.2	16.1	0	Current ability level may be sufficient
Written Expression	9.8	15.0	17.9	>	Current ability level is likely sufficient
Deductive Reasoning	10.6	14.6	15.6	0	Current ability level may be sufficient
Category Flexibility	9.0	12.2	13.2	0	Current ability level may be sufficient
Fluency of Ideas	7.6	11.8	12.6	0	Current ability level may be sufficient
Mathematical Reasoning	6.3	11.5	13.3	>	Current ability level is likely sufficient
Number Facility	6.3	11.0	11.8	0	Current ability level may be sufficient
Memorization	5.6	8.4	8.0	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

There are no common work activities.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 93

Focus Occupation: Biological Scientists, All Other (19-1029)

Associated Occupation: Epidemiologists (19-1041)

Tools and Technologies	Exclusivity
Computers	1
Content authoring and editing software	1

Data management and query software	1
Industry specific software	1
Information exchange software	1
Network applications software	1

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.